Honeywell

WC2003B
WEB-403

SPECIFICATION DATA

FEATURES

- **Embedded RISC Microprocessor platform.**
- **One LON® FTT10A port for LON® device integration.**
- **Direct, on-board I/O with six universal inputs, and 4 digital relay outputs.**
- **One RS-485 port for connection to open and proprietary protocol devices.**
- **One RS-232 port for Integration or support of an optional internal modem.**
- **Integral Web User Interface services to support many simultaneous users over the intranet or Internet via a standard web browser.**
- **The WC2003B1022 can integrate up to 27 LONWORKS® devices.**
- **The WC2003B1048 can integrate up to 120 LONWORKS® devices.**

OVERVIEW

The WC2003B WEB-403 bundles WEBs software capability in a hardware platform that can be installed in typical building control environments. Each WEB-403 connects to a system field bus and provides real-time control functions as constant streams of data from individual systems are instantaneously transformed to a common object model. The products provide a fully distributed system when multiple units are networked together, which provides unsurpassed scalability and reliability. In this configuration, WEBs can be used to network controllers and manage enterprise-level control functions. The appropriate model is determined by connectivity and computing power requirements.

APPLICATIONS

Specifically designed for light commercial applications, the WEB-403 is ideally suited for users who require a compact controller that can be wall or enclosure mounted. A single WEB-403 controller can be used to support a network of devices via the LONWORKS® port and auxiliary devices that can be accessed directly via onboard I/O, or through the RS-485 port, or an RS-232 port (unless used by the optional internal modem). The on board I/O can be used to monitor pulse contacts from power/demand meters, analog sensors or transducers, as well as control energy consuming devices with digital relay outputs.

SPECIFICATIONS

Platform:
Motorola RISC @ 250MHz.
128 MB Ram, 32 MB Flash for database backup.
WEBs Control Engine- with direct I/O support objects.
One 10/100 MB Ethernet RJ-45 connector.
FCC Class “A” computing Device.

Operating System:
Wind River® VxWorks® Operating System with Jeode Java™ Virtual Machine.
WEBs (Control Engine) Software with I/O control objects.

Inputs/Outputs:
Four form C (SPDT) relay outputs rated for 24 VAC/DC at 2A resistive.
One LED indicator for each relay.
All I/O uses screw terminals on 0.2 centers.
Six Universal Inputs for 10 Kohm Type III (10K) Thermistor, 4 to 20 mA current loop, 0 to 10 volt, or dry contact:
- 12-bit A/D converter.
- Thermistor Sensor Range -10° to 135°F (-23° to 57°C). Input accuracy is in the range of ±1% of span.
- 0 to 10V or 4 to20 mA accuracy is ±2% of span (no field calibration required). Uses external resistor for current input (four provided). Self- or board- powered sensors accepted.
- Dry contacts (on UI) 20 Hz maximum frequency (25 ms minimum pulse width). 3V open circuit, 300A short-circuit current.
- Board provides 20 Vdc at 80 mA to drive 4 to 20 mA powered sensors.
- 24 Vdc terminal and external resistor can be used if monitoring contacts that require higher voltages or higher current.

Chassis:
Intended for indoor wall mounting only.
Cooling: Internal air convection.
Dimensions: 11 in. wide x 14 in. high x 2-1/2 in. deep (28 cm wide x 36 cm high x 6 cm deep).
Weight:
Net: 4 lbs (1.8 Kg).
Gross: 5 lbs (2.3 Kg).

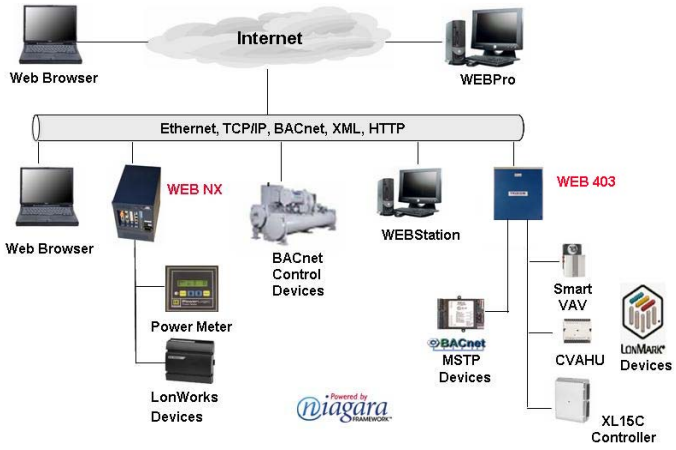
Environmental Ratings:
Temperature:
Operating: 32°F to 122°F (0° to 50°C).
Storage: 32°F to 158°F (0° to 70°C).
Humidity: 5 to 95%, non-condensing RH.

Communications:
One 10/100 MB Ethernet port - RJ-45 connection.
One RJ-45 connector for RS-232 port.
One RS-485 port (up to 57,600 baud).
One LONWORKS® port - FTT-10 with Weidmuller connector.
MDM401: Optional auto-dial /auto-answer 56K modem; RJ-11 connector (uses the RS-232 port when installed).

Power Supply:
120 Vac, 50/60 Hz.
25 VA maximum.
Lead wires for hot/neutral (wire nut).
Stud for ground connection.

Battery Backup:
Battery backup provided for all on board functions including I/O.
Battery is monitored and trickle charged.
Battery maintains processor operation through power failures for a pre-determined interval, then writes all data to flash memory, shuts processor down, and maintains clock for a minimum of five years.

Agency Listings:
UL 916, C-UL listed.
CSA C22.2 No. 205-M1983 Signal Equipment.
CE.
FCC part 15 Class A.



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